



535502

# **BULK ASBESTOS SAMPLE EVALUATION** **POLARIZED LIGHT MICROSCOPY (PLM) TECHNIQUE**

NVLAP LAB ID 101130-0

<b>Company Name:</b> Illinois Environmental Protection Agency				<b>Client Project Ref:</b> Internet Foundry			
<b>Contact:</b> Ron Robeen				<b>Project Location:</b>			
<b>Address:</b> 1021 N. Grand Avenue East				<b>TEM Project:</b> 47604			
Springfield IL 62794-9276				<b>Analyzed by:</b> Lori Boersma			
				<b>Date Analyzed:</b> 7/18/2014			

  

Sample Information				Fibrous Materials		Non-Fibrous Materials		Comments
Client Sample ID	TEM ID.	COLOR	ACM	Asbestos Fibers Type	Percent	Non-Asbestos Fibers Type	Percent	
ACM 1	241696	Gray	N/D	Chrysotile		Cellulose	90-100	
Waste Pile/Fabric Coating				Amosite		Glass		
ACM 2	241697	Black	Yes	Chrysotile	60-70	Cellulose		30-40
Galbestos Siding				Amosite		Glass		
ACM 3	241698	Black	Yes	Chrysotile	60-70	Cellulose		30-40
Galbestos Siding				Amosite		Glass		
ACM 4	241699	Black	Yes	Chrysotile	60-70	Cellulose		30-40
Galbestos Siding				Amosite		Glass		
ACM 5	241700	Black	Yes	Chrysotile	60-70	Cellulose		30-40
Galbestos Siding				Amosite		Glass		

Samples were analyzed following the procedures contained in the EPA Method 600/R-93/116, July 1993. This report applies only to samples tested.

SLM: The optical resolution of polarized light microscopy limits the size of fibers that are visible. In samples where very small fibers may be present, the asbestos fibers may be smaller than the resolution limit of a polarized light microscope. In those cases, the result of the PLM analysis is not conclusive where the sample is reported as non-asbestos. Samples that are expected to contain small fibers (such as floor tile samples and vermiculite) and that are reported as non-asbestos by PLM should be further analyzed by transmission electron microscopy.

This report may not be reproduced except in full and with the approval of the Laboratory. This report may not be used by the client to claim product endorsement by NVLAP or any agency of the US government. An estimate of the laboratory uncertainty is available upon request.

Key: ACM = Asbestos Containing Material as defined in USEPA NESHAP Regulation; TR = Trace; N/D = None Detected

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Report Approved by:

443 Duane Street, Glen Ellyn, Illinois 60137 Phone (630) 790-0880 Fax (630) 790-0882

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630 790 0882

TEM Incorporated

JUL 18 2014 2:00PM

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POLARIZED LIGHT MICROSCOPY (PLM) TECHNIQUE**

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Sample Information				Fibrous Materials				Non-Fibrous Materials
Client Sample ID	TEM	COLOR	ACM	Asbestos Fibers		Non-Asbestos Fibers		Filler
Description	ID.			Type	Percent	Type	Percent	Binder
ACM 6 Galbestos Siding	241701	Black	Yes	Chrysotile Amosite	60-70	Cellulose Glass		30-40
ACM 7 Waste Pile/Demolition Debris	241702	Gray	Yes	Chrysotile Amosite	10-20	Cellulose Glass		80-90

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443 Duane Street, Glen Ellyn, Illinois 60137 Phone (630) 790-0880 Fax (630) 790-0882

47604

## Chain of Custody

Laboratory: TEM Inc. Address: 443 Duane St City: Glen Ellyn, IL 60137-4528	Contact: Ron Robeen 217-524-0229 or ron.robeen@gmail.com
Project Name: <i>Internet Foundry</i> Project Address:	Contractor: Owner:
Collector:	ASHERA Inspector Number:

Sample Identification	Date Collected	Location/Description
ACM 1	7/15/14	Waste Pile / Fabric coating
ACM 2	7/15/14	Galbestos Siding
ACM 3	7/15/14	Galbestos Siding
ACM 4	7/15/14	Galbestos Siding
ACM 5	7/15/14	Galbestos Siding
ACM 6	7/15/14	Galbestos Siding
ACM 7	7/15/14	Waste Pile / demolition debris

Released by (Signature)	Date/Time Released	Delivery Method	Received by (Signature)	Co/Agency Affiliation	Date/Time	Condition Noted
<i>Bruce Smith</i>	7/16/14 1300	HAND	<i>Ron Robeen</i>	IEPA	7/16/14	Good
<i>Ron Robeen</i>	7/16/14 1300	Hand/UPS	<i>Jim Kucera</i>	TEM, Inc.	7/17/14 10:15am	OK

Disposition Of Samples: Return to Ron Robeen, IEPA, P.O Box 19276, Springfield, IL 62794-9276

Remarks, Special Instructions: Analyze all samples PLM. 24 Hour TA please. Fax sample results to 217 782-1875 and call 217-524-0229 with any questions. Thanks.